#### 54 CTC L 108 TGT C 162 AAC N 216 ACA T 270 AAC N 324 TAT Y 378 CAG Q 9 9 TCC ACC TGC T C GAG GGA TTT. GGA CCA ( ACT TTG ( CCA P TTG CTT CTT C ACC AAA I T K 207 ACA TTC CCC 1 T F P I 261 GTA TAT TGT ( V Y C ( 153 TGC AAC N 315 GTC V 360 3 TCC AAT GAG A S N E N ACT CAC : TGT AAA I CAA $^{9}$ $^{18}$ $^{27}$ $^{36}$ 5' GCG TGG GAT ACC CGT ACC ACA GAA ATG CAG GGA CCA $^{\prime}$ M $_{\rm Q}$ G P ACT CAG A 252 TAT AGT ( Y S V 144 AAC N 306 TAC TGT ( Y C ( 189 198 TCT GGG CAG AAA CTA TTC S G Q K L F AAT AGT AAT 1 S N S GTG A GTC A CCC AGT TTC 1 S F Y 81 GGA GCT ( G A 135 GCT TCC TGT C A S C V 243 CCA ( P I TTC 297 351 ACA GAA GGA E GAA CAA 9 TTT F TGT 72 CTC ' L 288 AAT GTC ( N V I GGA G 234 GAA E 126 AAT N AAT N 180 342 CCC CCA A AGC ACT TCT ( TCT GGG ASS S G B AAT N CTG / TAC 7 ATT I 63 CTG ( 117 AAG TGC ( K C I 171 GGA TAT A G Y 1 279 TGT ' 225 GAC D CAT H 333 TTT AAC N GTA V AGA CTG ( GCT A

| 432<br>GTG<br>V | 486<br>AGA<br>R | 540<br>GTT<br>V   | 594<br>GAT<br>D | 648<br>AAG<br>K   | 702<br>ATC |
|-----------------|-----------------|---|-----------------|-------------------|------------|
| ATT<br>I        | 999<br>9        | AAA<br>K  | AAC<br>N        | AGA<br>R          | AGT GAC    |
| AAG<br>K        | GAA             | TCG   | CAA             | GAA               | AGT        |
| 423<br>CAA<br>Q | 477<br>ACA<br>T | 531<br>GAA<br>E   | 585<br>ATC<br>I | 339<br><b>A</b> A | £ 5        |
| CTG<br>L        | AGA<br>R        | GTG<br>V  | AAA<br>K        | TCT               | CGT        |
| GAG<br>E        | TGG<br>W        | GAT<br>D  | CTG<br>L        | TGC               | ATC        |
| 414<br>AAA<br>K | 468<br>TTA<br>L | 522<br>CGG<br>R   | 576<br>GTC<br>V | 630<br>AAT<br>N   | 684<br>GAC |
| AGG<br>R        | ACT             | 513 522 5<br>C ACT ATT CTC CGG GAT GTG G<br>T I L R D V E | AAA<br>K        | GAC<br>D          | ATG        |
| ეტ <u>ე</u>     | CAG<br>Q        | ATT<br>I  | CAA<br>Q        | ACA               | TCA        |
| 405<br>CAG<br>Q | 459<br>AAT<br>N | 513<br>ACT<br>T   | 567<br>GAA<br>E | 621<br>ATT<br>I   | 675<br>AAC |
| ¥ L             | ACC             | 26 -  | CCA<br>P        | GCG               | ATG        |
| ACA             | CIC             | GCT<br>A  | GAT<br>D        | CAA               | CAA        |
| 396<br>AAG<br>K | 450<br>CTT<br>L | 504<br>ACA<br>T   | 558<br>AAA<br>K | 612<br>ACT<br>T   | 666<br>GTC |
| TCA             | TC?<br>S        | TCC   | TTC             | GAA<br>E          | AAC        |
| TCC             | GAG             | TCA<br>S  | GCC             | ATT<br>I          | TTG        |
| 387<br>ACC<br>T | 441<br>TTT<br>F | 495<br>ATC<br>I   | 549<br>ACT<br>T | 603<br>GCT<br>A   | 657<br>AAC |
| ACC             | AAA<br>K        | GAA<br>E  | GAA<br>E        | GTA<br>V          | TTC        |
| GAC             | GAC             | CAA<br>O  | CTA<br>L        | AGT               | ACA        |
|                 |                 |   |                 |                   |            |

#### FIGURE 1E

ATC CAG GGA GAC ACA CAA GGT CCC AGT GTC ATT GCC TTT ATC TCA TTT TCT TCT I Q G D T Q G P S V I A F I S Y S S

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#### FIGURE 1C

| 810<br>CAA<br>Q | 864<br>GTG<br>V | 918<br>AGT<br>S | 972<br>TGG<br>W   | 026<br>AAT<br>N      | 080<br>GAG<br>E  | 134<br>IGC       |
|-----------------|-----------------|-----------------|---|----------------------|------------------|------------------|
| GAT<br>D        | AAC<br>N        | CCC             | CAG<br>Q  | TGT<br>C             | 1<br>GAG<br>E    | CTG L            |
| AAA<br>K        | AGG<br>R        | ACC             | AGC   | ATG<br>M             | CAG<br>Q         | CTG              |
| 801<br>AAG<br>K | 855<br>AAA<br>K | 909<br>ATG<br>M | 963<br>GGC<br>G   | 017<br>ACC<br>T      | .071<br>AGC<br>S | 125<br>TCT<br>S  |
| GAT<br>D        | CCC             | AAG<br>K        | CAG<br>Q  | CAC<br>H             | ACC<br>T         | 1<br>GTC<br>V    |
| ATG<br>M        | GGA             | GTG<br>V        | 999<br>9  | AGT                  | CTG<br>L         | AGC              |
| 792<br>GAG<br>E | 846<br>ATT<br>I | 900<br>CAC<br>H | 954<br>ACA<br>T   | .008<br>AAG<br>K     | .062<br>GCC<br>A | 116<br>CTG<br>L  |
| GAA<br>E        | GCT             | CAG<br>Q        | AGC   | AAC<br>N             | 1<br>ATG<br>M    |                  |
| TTT<br>F        | GCT             | TTC             | AAG<br>K  | GTG<br>V             | CTG<br>L         | GTG<br>V         |
| 783<br>TTT<br>F | 837<br>AGT<br>S | 891<br>ACT<br>T | 945<br>TGG<br>W   | 999<br>CAC<br>H      | 1053<br>GTC<br>V | .107<br>TAC<br>Y |
| ACT             | GTG<br>V        | CTG<br>L        | TAC<br>Y  | ATA<br>I             | GCT              | ACC<br>T         |
| GCA<br>A        | GTT<br>V        | ACG             | GTC   | $_{\rm L}^{\rm CTG}$ | TTC              | ATC<br>I         |
| 774<br>AAT<br>N | 828<br>CAG<br>Q | 882<br>GTG<br>V | 936<br>TGT<br>C   | 990<br>TTC<br>F      | .044<br>AGC<br>S | .098<br>GTC<br>V |
| ATA<br>I        | TCT             | TCT             | TTC<br>F  | TGC                  | TCC<br>S         | ACT<br>T         |
| ATC             | AAC<br>N        | AAG<br>K        | GTC   | 999<br>9             | CTG<br>L         | CTG<br>L         |
| 765<br>AAC<br>N | 819<br>CTG<br>L | 873<br>TCC<br>S | 927<br>AAG<br>K   | 981<br>GAT<br>D      | CAC<br>CAC<br>H  | .089<br>GTG<br>V |
| GGA             | TAT<br>Y        | CTC             | AAA<br>K  | AGG<br>R             | AGT<br>S         | CCC<br>P         |
| CTT             | GTG<br>V        | TCT             | 927 936 945 954 963 972<br>ACC AAA AAG GTC TTC TGT GTC TAC TGG AAG AGC ACA GGG CAG GGC AGC CAG TGG<br>T K K V F C V Y W K S T G Q G S Q W | TCC                  | TGC              | GAT<br>D         |

#### CTC CTC CTG GCG GCC CTC ACT TTT CTC CTG TGT AAA GCC ATC CAG AAC ACC AGC CTG GCC CAC CTC CTC TTC L A H L L F CTC GTG GGG AIT GAT CGA ACT GAA CCC AAG GTG CTG TGC TGC ATC ACT GCC GGT L V G I D R T E P K V L C S I I A G GCT TTG CAC TAT CTC TAC CTG GCC GCC TTC ACC TGG ATG CTG GAG GGT GTG A L H Y L Y L A A F T W M L L E G V CAC CTC TTC CTC ACT GCA CGG AAC CTG ACA GTG GTC AAC TAC TCA AGC ATC AAT H L F L T A R N L T V V N Y S S I N AGA CTC ATG AAG TGG ATC ATG TTC CCA GTC GGC TAT GGC GTT CCC GCT GTG ACT R L M K W I M F P V G Y G V P A V T GIG GCC AIT ICT GCA GCC TCC TGG CCT CAC CIT TAT GGA ACT GCT GAT CGA TGC V A I S A A S W P H L Y G T A D R C CAT CTG CAG CTC TCG CTC TTC H L Q L S L C L F ACC TCA CTG C

### FIGURE 1E

| 1566<br>PGT GCC    | 1620<br>LAA AGA<br>K | 1674<br>TG CTG   | 1728<br>:TG GGC  | 1782<br>TC ATC<br>I | 1791 1800 1809 1818 1827 1836 AAC AGC CTC CAA GGC TTC TTC TTC TTC GTC TAC TGC CTC CTC AGC CAG CAG N S L Q G F F I F L V Y C L L S Q Q | 1890<br>CT GAG<br>E |
|--------------------|----------------------|------------------|------------------|---------------------|---|---------------------|
| GTC 1              | TTG A                | AGG A<br>R M     | TGT C            | ACC A<br>T I        | AGC C   | AAA T               |
| 1557<br>C CCA<br>P | 1611<br>3 ATT<br>1   | 1665<br>ACA<br>T | 1719<br>1 TGG    | 1773<br>TTC<br>F    | 1827<br>CTC<br>L  | 1881<br>TCA<br>S    |
| 99 5               | JDL ™                | AAC              | ACA              | CTC                 | CTC   | AAA<br>K            |
| CTT                | TTT                  | CAG<br>Q         | TGC              | TAC<br>Y            | TGC   | GTA<br>V            |
| 1548<br>TTC<br>F   | 1602<br>GTC<br>V     | 1656<br>ATC<br>I | 1710<br>GGC<br>G | 1764<br>GCC<br>A    | 1818<br>TAC<br>Y  | 1872<br>ATC<br>I    |
| AGT                | TTG                  | ACC              | CTG              | ATG<br>M            | GTC   | GAG                 |
| TGG<br>W           | ATC<br>I             | TCA              | ATC              | GTC                 | TTG   | AGA<br>R            |
| 1539<br>ATG<br>M   | 1593<br>TTT<br>F     | 1647<br>GTG<br>V | 1701<br>TTC<br>F | 1755<br>CAG<br>Q    | .809<br>TTC<br>F  | .863<br>TTT<br>F    |
| TTC                | TTG                  | GAA              | CTC              | GCC<br>A            | ATC<br>I  | 1<br>TGG<br>W       |
| GGA<br>G           | GTA<br>V             | AGT              | CAG              | GCT                 | TTC   | AAG<br>K            |
| 1530<br>CAG<br>Q   | 1584<br>TTA<br>L     | 1638<br>AAT<br>N | 1692<br>GCT<br>A | 1746<br>CCA<br>P    | .800<br>TTC<br>F  | .854<br>CAA<br>Q    |
| GAC                | AAT<br>N             | CTC              | ACA              | GGT<br>G            | 96C<br>G  | 1<br>TAT<br>Y       |
| CTG<br>L           | GCG<br>A             | TCC              | GCA<br>A         | GTG<br>V            | caa<br>o  | CAA<br>Q            |
| 1521<br>CAC<br>H   | 1575<br>TCT<br>S     | 1629<br>TCC<br>S | 1683<br>AAA<br>K | 737<br>CAG<br>Q     | .791<br>CTC<br>L  | .845<br>AAA<br>K    |
| CTC                | TTC                  | CTT              | TTC<br>F         | CTA<br>L            | AGC<br>S  | cag<br>Q            |
| TGG<br>W           | ATT<br>I             | AAA<br>K         | GCT              | TTG<br>L            | A.A.C.<br>N   | 3TC<br>V            |

| 1944<br>AGT GAG<br>S E | 1998<br>ATT CAA         | 2052<br>TGA AGC                      | 2106<br>TCA ACC                                       | 2160<br>GTA                                       | 2214<br>GAA ACC | 2268<br>GGT CCT         | 2322<br>AGA CAG     | 2376<br>TGC                                       |
|------------------------|-------------------------|--------------------------------------|---|---|-----------------|-------------------------|---------------------|---|
| AGT                    |                         | TGA                                  | TCA   | GTG   | GAA             | GGT                     | AGA                 | CAC ,   |
| CCC                    | 1989<br>TAA AAC TAG AAT | GAA                                  | TAA   | TGT   | CTG             | AGA                     | TTA                 | 2367 2376<br>ATC GTA GCT CAC TGC                  |
| 1935<br>TCA AAA<br>S K | 1989<br>TAG             | 2043<br>TAT GAA                      | 2097<br>AGG AAG                                       | 2151<br>AAA                                       | 2205<br>TTG TCC | 2259<br>. TGA           | 2313<br>CTT TTT TTA | 2367<br>GTA                                       |
| TCA                    | AAC                     | TAT                                  | AGG   | AAC   | TTG             | AAA                     | CTT                 | 2<br>ATC  |
| GAC                    |                         | CAT                                  | 2070 2079 2088<br>AAT TCA TTA AAC ATA TCA TCC TTG GAG | 2142 2151 2160<br>TAG GCT CTC AAC AAA TGT GTG GTA | TGC             | 2259<br>TGT AAA TGA AGA |                     | ATG   |
| 1926<br>GGT CCT<br>G P | 1980<br>AAA TAT<br>K Y  | 2034<br>CTT TGG                      | 2088<br>TTG   | 21 <b>4</b> 2<br>GCT                              | 2196<br>' CAA   | 2250                    | 2304<br>CTT         | 2358<br>GGC<br>1F                                 |
| GGT                    |                         |                                      | TCC   | TAG   | AGI             | ACT                     | 2304<br>AAA CTT GCT | 9 23!<br>3 TGT AGT G<br>FIGURE 1F                 |
| ATG                    | AGA<br>R                | TCT                                  | TCA   | CAA   | TTC             | TTG                     | CCT                 | GUI   |
| 1917<br>AGC AAG<br>S K | 1971<br>GTG AAG<br>V K  | 2025<br>CAT GGA                      | 2079<br>ATA   | 2133<br>TCT CCA CAA                               | 2187<br>GTA     |                         | 2295<br>ACT CAT CCT | 2349 2358<br>CTG GAG TGT AGT GGC ATG<br>FIGURE IF |
| AGC                    | GTG                     |                                      | AAC   |   | 2187<br>GGT GTA | 2241<br>ATT TCC         | 2<br>ACT            | 2<br>CTG  |
| TCC                    | CAA<br>Q                | 2007 2016<br>CAT ATG GAA AAT CAT ATC | TTA   | TGT   | TAT             |                         | ညည                  |   |
| 1908<br>ACA CTT<br>T L | 1962<br>CCA GGA<br>P G  | 2016<br>CAT                          | 2070<br>TCA   | 2124  | 2178<br>CTT CAC | 2232<br>GCA             | 2286<br>' AGT       | 2340<br>CCC                                       |
| ACA                    | CCA                     | AAT                                  | AAT   | ACT   | CTT             | ACT                     | 2286<br>CTT AGT     | 2340<br>TCA CCC AGG                               |
| TAC<br>Y               | TTT<br>F                | GAA                                  | 999   | CAA   | TCT             | ACC                     | GIL                 | CTG   |
| 1899<br>GAG ACA<br>E T | 1953<br>GAT GTT<br>D V  | 2007                                 | 2061<br>GGA AAA GGG                                   | 2115<br>ACT TCC                                   | 2169<br>TGC ATT | 2223<br>AGC ATG ACC     | 2277<br>CCT CAA GTT |   |
| GAG                    | GAT                     | CAT                                  | GGA   | ACT   | 2<br>TGC        | 2<br>AGC                | 2<br>CCT            | 2331<br>TTC ACT                                   |
| TCT                    | 999                     | CTC                                  | TAA   | TTT   | AAT             | CAA                     | TTT                 | AGT   |
|                        |                         |                                      |   |   |                 |                         |                     |   |

### FIGURE 1G

| 2430                    | 2484           | 2538           | 2592        | 2646            | 2700        | 2754        | 2808        | 2862            |  |
|-------------------------|----------------|----------------|-------------|-----------------|-------------|-------------|-------------|-----------------|--|
| A AGT GCT               | AAC TCA        | . GAT ACA      | TCT TGT     | TTC AAG         | CCA CCA     | GGT CAG     | CAA GAG     | TTT TCT         |  |
| CAA                     | TTA            | CTA            | Sec         | 999             | GGA         | GTT         | TCC         | TTA             |  |
| 2421                    | 2475           | 2529           | 2583        | 2637            | 2691        | 2745        | 2799        | 2853            |  |
| GCT TCC                 | TGC TCT        | TCC TTG        | GAG TTT     | CCT CCC         | AGG TAT     | CTC CAT     | TTG GCC TCC | GCT AAC TTA     |  |
| TCA                     | ACT            | ACT            | ATG         | CTG             | TAC         | TTT         | GAC         | CAG             |  |
| 2412                    | 2466           | 2520           | 2574        | 2628            | 2682        | 2736        | 2790        | 2844            |  |
| CCA GCC TCA             | CCA TAA ACT    | GGC TTT        | TTT GAG     | CAA CCT         | TGG CGT TAC | ACA GGG     | CCA CCT GAC | CCA GCC         |  |
| TCT                     | TGG            | ACT            | TTT         | GTG             | AGC         | GAG         | GAT         | TGC             |  |
| 2394 2403               | 2457           | 2511           | 2565        | 2619            | 2673        | 2727        | 2781        | 2835            |  |
| CAG AGC TCA ACT GGT TCT | TGC ACC TGG    | CTT CCT ACT    | TTT TTT     | GCG TGA         | CCA AGT AGC | TTA GTA     | TCA GGT     | CCA CCG         |  |
| TCA                     | CAC            | CAG            | TTT         | ACG             | CTC         | TTT         | വാ          | GAG             |  |
| 2394                    | 2448           | 2502           | 2556        | 2610            | 2664        | 2718        | 2772        | 2826            |  |
| CTC CAG AGC             | GC ATG AGC CAC | CA AAC CAT CAG | TTT TTT TTT | TGG AGT GCA ACG | TGC CTC AGC | AAT TYT GTA | GAA CTC CCA | TAC AGG CAT GAG |  |
| 2385                    | 2439           | 2493           | 2547        | 2601            | 2655        | 2709        | 2763        | 2817            |  |
| CTC AAA (               | ATT ACA GGC    | ATT CCC TCA    | TAA TTT T   | CCA GGC T       | TTC TTC T   | CCG GCT A   | GGT CTC G   | TGG GAT T       |  |
| AGC C                   | GGG A          | CTC AS         | GGC TA      | TGC CC          | CGA TT      | TGT CC      | GCT GG      | TGC TG          |  |

| GTA<br>GAC<br>GAC<br>TCC<br>TTT | TTT<br>CTC<br>CAT<br>ATA |                 | CCA<br>GGT<br>ACC<br>TGA<br>TGA |                     | 997 ATG CCG CCA 051 GTT GGC CAG 105 CC TCC CAA 159 TTA AGT GTT 121 TAT TAA TTA 121 121 TAT TAA TTA | 2 CAC. 3 3 CAT. 3 3 STA 7 1 CCC 7 1 CCC 7 3 3 3 3 3 3 3 3 3 3 3 3 4 AT. 7 CC 7 | AAG GAG A ATA ATA ATA ATA A | 2988 GAC TAC AAG 3042 AGG TTT CAC 3196 CCA CCT GCC 3150 TGA TGA GAG 3204 GAG GTA ATC 3258 TTC AAA ACA 3312 |     | ACA<br>GAT<br>GCC<br>GCC<br>TAT ' | 2979 GAT AGC 3033 GTG GAG 3087 AGC AGC 3191 CAT CGC 3195 AAG TTA 3249 TAG ATA 3303 ATA TAA | TTA GAGC CAGC CAGC CAGC CAGC CAGC CAGC C |
|---------------------------------|--------------------------|-----------------|---------------------------------|---------------------|--|--|-----------------------------|--|-----|-----------------------------------|--|--|
| 3240<br>TCC ACG                 | CAT                      | 3231<br>CTT AGT | TGA                             |                     |  |  | ATC                         | 3204<br>GTA  |     | TAT                               | 3195<br>AG TTA   |  |
| 3186<br>AAG AAA                 | AAA                      | 3177<br>ACA AAA | ACC                             |                     | AGT  |  |                             | 3150<br>TGA  |     | CCC                               | 3141<br>AT CGC   |  |
| 3132<br>GAC ACA                 | ACA                      |                 | GCT                             |                     | TCC  |  |                             | 3096<br>CCT  |     |                                   | 3087<br>AGC AGC  |  |
| 3078<br>CTG ACC                 | CTC                      |                 | GAT                             | 3060<br>CAG GCT     | 295  |  |                             | 3042<br>TTT  | AGG | ACA                               | 3033<br>FTG GAG  |  |
| 3024<br>GTA TTT                 | TTT                      | 3015<br>GCT AAT | CCA                             |                     | SCC  | 2997<br>CAC ATG  | AAG                         | 2988<br>TAC  |     |                                   | 2979<br>SAT AGC  |  |
| 2970<br>TAG CCT                 | CCT                      | 2961<br>CTC CTG | ATT                             | 2952<br>CAA GCA ATT | GTT  | 2943<br>TCC TGG GTT  | ACC                         | 2934<br>ACC TCT ACC  | ACC | GCA.                              | 2925<br>CTC ACT  | AGG (                                    |
| 2916<br>AGA TCT                 | GTG                      | 2907<br>GCA GTG | AGT                             | 2898<br>GGC TGG AGT | CCA  | 2889<br>TGT CAC  | TAC                         | 2880<br>TCT CAC TAC  |     | GAG                               | 2871<br>GAG ACT GAG  | TCT (                                    |

#### FIGURE IH

| MQG PLLLPGLCFLLSLFGAVTQKTKTS - 42905<br>MRGFNLLLFWGCCVMHSWEGHIRPTRKPTRKP94<br> | C A K     C P P N A S C     V N N T H C T C N H   429905<br>K G N N C R D S T L C P A Y A T C T N T V D S Y Y C T C K Q GI 784994 | GYTSGSGQKLFTFPLETCNDINECTPP 429905<br>GFLSSNGQNHFKDPGVRCKDIDECSQSPQP GI 784994<br> | C G P N S S C K N L S G R Y K C S C L D G F S P T G N D W GI 784994 | 1 VPGKPGNFSCTDINECLTSRVCPEHSDCVN G19905 | VEGSFYCOCVPGYRLHSGNEQFSN 429905<br>1 SMGSYSCSCQVGFISRNSTCEDVNECADPR GI 784994<br>GI 2935597 |
|--|---|--|---|---|---|
| H  | 7 3 28  | \$\frac{1}{1}  | 1<br>1<br>3   | 1 121                                   | 88<br>151<br>1  |

### FIGURE 2A

| _                          |                            |                                   |                                   |                                   |                                   |
|----------------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 905<br>784994<br>2935597   | 905<br>784994<br>2935597   | 4 97                              | 4                                 | 4                                 | 4                                 |
| 905<br>784994<br>293559    | 905<br>784994<br>293559    | 429905<br>GI 784994<br>GI 2935597 | 429905<br>GI 784994<br>GI 2935597 | 429905<br>GI 784994<br>GI 2935597 | 429905<br>GI 784994<br>GI 2935597 |
| 429905<br>GI 784<br>GI 293 | 429905<br>GI 784<br>GI 293 | 429905<br>GI 784<br>GI 293        | 429905<br>GI 784<br>GI 293        | 429905<br>GI 784<br>GI 293        | 05<br>84.<br>93.                  |
| 0                          | 9                          | 0                                 | 0                                 | 0)                                | 0                                 |
| 42.<br>12.<br>13.          | 42.<br>Fi Fi               | 42<br>GI                          | 42<br>G 1                         | 42<br>G G G                       | 42<br>G1                          |
| 1 H 1                      | 1 CD 1                     | 1 0 1                             | <u>[</u> [[]                      | 1 2 1                             | 1 H 1                             |
| - H -                      | ıΔı                        | 1 H I                             | 1 (2) 1                           | 1 0 1                             |                                   |
| 1 70 1                     | 1 E+ 1                     | 1 0 1                             | 1 > 1                             | · [] ·                            | 1 02 1                            |
| I Ø I                      | 1 Z 1                      | 1 24 1                            | 1 1 1                             | 1 1 1                             | 1 [±, 1                           |
| IWI                        | 1 E+ 1                     | 101                               | וטו                               | ı > ı                             | IHI                               |
| IWI                        | 101                        | 1 🖼 1                             | 1 (0) 1                           | 1 0 1                             | 1 🗷 1                             |
| 1 EE 1                     | [→                         | ı > ı                             | IOI                               | 1 🖾 1                             |                                   |
| 1 [14                      | 1 02 1                     | 101                               | ıαı                               | 1 🖂 1                             | ı H i                             |
| ΙÖΙ                        | 121                        | 101                               | ı > ı                             | 101                               | 1 0/ 1                            |
| 1 4                        | ı H ı                      | 1 0 1                             | I Ø I                             | 1 🔀 1                             | 1 K 1                             |
|                            | ιдι                        | 1 🖽 1                             | 1 70 1                            | الطا                              | 101                               |
| IOI                        | IOI                        | التباا                            | 1 17 1                            | 1 11 1                            | Et <sub>4</sub>                   |
| 1 [4 1                     | ⊠                          | 1 🛮 1                             | 1 4 1                             | ı > ı                             | IWI                               |
| 101                        | 1 [2] 1                    | 1 17 1                            | 1 Z 1                             | 1 24 1                            | ı > ı                             |
| IWI                        | [-                         | 101                               | 1 🗀 1                             | 1 0/ 1                            | 1 > 1                             |
| - X                        | 1 0 1                      | 1 0 1                             | ΙΟΊ                               | 101                               |                                   |
| Z                          | 1 🖽 1                      | ı Wı                              | 1 H 1                             | IQI                               | <u>단</u>                          |
| 1 > 1                      | - Q -                      | ומו                               | ומו                               | التطا                             | K K I                             |
| <br>                       | - H -                      | 1 🕰 1                             | 1 2 1                             | IZI                               | ω > ı                             |
|                            | 1 🖽 1                      | A                                 | 1 🕰 1                             | 1 10 1                            | N 4 I                             |
|                            | 1 10 1                     | 1 (5) 1                           | 1 0 1                             | 1 0 1                             | H H                               |
| . D i                      | ומו                        | 1 0 1                             | 1 D 1                             | 1 12 1                            | EH UD I                           |
| 1 E+ 1                     | . o <sub>2</sub> ,         | 1 🖽 1                             | IΩI                               | IOI                               | 口田」                               |
| 1 4 1                      | 1 X 1                      | ו טו                              | 1 O2 1                            |                                   | 0 0 I                             |
| ı                          | 1 1                        | . O .                             | 1 0 1                             | 1 12 1                            | I - F-'                           |
| I [2] I                    | ו ט ו                      | וטו                               | 10/1                              | 1 (4)                             |                                   |
| ι Дι ι                     | 10/1                       | 1 [14 ]                           | 1 K 1                             |                                   | E H I                             |
| וטו                        | ı Ü ı                      | 1 > 1                             | 101                               | 1 24 1                            | Z O I                             |
| IKI                        | IWI                        | ו מו                              | · ) ·                             | . H .                             | S X I                             |
| 7 [                        | 7.7                        |                                   | 7.7                               |                                   |                                   |
| 181                        | 112<br>211<br>1            | 112<br>241<br>1                   | 11.<br>27.1<br>1                  | 112<br>301<br>1                   | 112<br>331<br>L                   |

### FIGURE 2B

# COSSISSAP, MARKET

| 497  | 197                                 | 1 37                               | 1                                   |  | 7                                  |
|--|-------------------------------------|------------------------------------|-------------------------------------|--|------------------------------------|
| 429905   | 429905                              | 429905                             | 429905                              | 429905   | 429905                             |
| GI 784994  | GI 784994                           | GI 784994                          | GI 784994                           | GI 784994  | GI 784994                          |
| GI 2935597   | GI 2935597                          | GI 2935597                         | GI 2935597                          | GI 2935597   | GI 2935597                         |
| 127 <u>OGRKE</u> <u>LOKIVDKFESLLTNQTLW</u>                   | 150 RTEGROEISSTATTILRDVESKVLETALKD  | 180 PEQKVLKIQNDSVAIETQAITDNCSEERKT | 210 FNLNVQMNSMDIRCSDIIQGDTQGPSVIAF  | 240 ISYSLGNIINATFFEEMDKKDQVY 481 VSFVGMESVLMERFFQDHQAPLTSEIKLK 0 | 265 LNSOVVSAAIGPKRNVSLSKSVTLTFOHVK |
| 361 DKVCENKTTVVS <u>L</u> KNTTES <u>FVPV</u> LKQISM <u>W</u> | 391 TKFTKEETISSLATVFLESVESMTLASFWKP | 421 SANVTPAVRAEYLDIESKVINKECSEENVT | 451 LDLVAKGDKMKIIGCSTIEESESTETTGVAF |  | 511 MNSRVVGGIMTGEKKDGFSDPIIYTLENVQ |
| 1  | 1                                   | 1                                  | 1                                   |  | 1                                  |
|  |                                     |                                    |                                     |  |                                    |

FIGURE 2C

### いたいとしているというにはいるのでは、

| MTPSTKKVFCVYWKSTGOGSO-WSRDGCFT, 42990F | PKQKFERPICVSWSTDVKGGR-WTSFGCVI GI 784994 | VLCVFWEHGONGCGHWATTGCST GT 2935597 |
|--|--|------------------------------------|
| >                                      | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \    | >                                  |
| F                                      | H  | 김                                  |
| >                                      | Ц  | >                                  |
| X                                      |  | ×                                  |
| L                                      | μη<br>Γτ.                                | ,                                  |
| S.                                     | 7  |                                    |
| Д                                      | Ŏ  | i                                  |
| E                                      | ×  | i                                  |
| Σ                                      | Д  | ı                                  |
| 295                                    | 541                                      | $\vdash$                           |

2935597 GI 784994 429905 G SHTMCNCSHLSFAVLMALTSQEED TYTICSCNQMANLAVIMASGELTMD TSTICRCTHLSSFAVLMAHYDVQED 团 Д HVNK മെ ∢ E ы Ü ıП 324 570 K3

GI 784994 G K S A LLCKA FLLC Ö П Ы ഥ ſΞι VITYVGLSVSLLCLLLAALT IISHVGLIISLVCLVLAIAT VITYMGLSVSLLCLLLAALT VLTV Н Д > 9 FS.

2935597 GI 784994 G H H H QNTSTSLHLQLSLCLFLAHLLFLVGIDR RNHNTYLHLHLCVCLLLAKTLFLAGIHK QNTSTSLHLQLSLCLFLAHLLFLVAIDQ н н Н 630

2935597 GI 784994 G A G A L H Y L Y L A A F T W M L L E G V H A G F L H Y L E L A C F F W M L V E A V I A G T L H Y L Y L A T F T W M L L E A L Y нн Н EPKVLCSII DNKTGCAII GHKVLCSII 99 115

GI 784994 PVGYG AFGYG Y G PVG M H M FLTARNLTVVNYSSINRLMKWI FLMWRNLKVVNYFSSRNIKMLH FLTARNLTVVNYSSINRFMKKL L L Д 444 9

#### FIGURE 2D

|   | GI 2935597         |
|---|--------------------|
| V P A V T V A I S A A S W P H L Y G T A D R C W L H L D Q G I V P A V T V V I S A S V Q P Q G Y G M H N R C W L N T E T G I V P A V T V V I S A S V Q P Q G Y G M H N R C W L N T E T G I V P A V T V V I S A S R P H L Y G T P S R C W L Q P E K G F M W S F L G P V C A I F S A N L V L F I L V F W I L K R K F I W G F L G P V C A I F S V N L V L F I L V T W I L R R R F I W G F L G P V C A I F S V N L V L F L L V T L W I L R Q R L S S L N S E V S T I Q N T R M L A F K A T A Q L F I L G C L S S L N S E V S T L K D T R L L T F K A T A Q L F I L G C L S S L N S E V S T L R N T R M L A F K A T A Q L F I L G C L S S L N S E V S T L R N T R M L A F K A T A Q L F I L G C I L Q V G P A A Q V M A Y L F T I I N S L Q G F F S W L G I L Q V G P A A R V M A Y L F T I I N S L Q G A F I F L I H C L L N G Q V R E E Y K R W I T G K T R P S S Q S I F L L L S S K M G P D S R P S E G D V F P G Q V R R K Y Q T S R I L L S S M P S A S R T G | MHTLSSAKADTSKPSTVN |

### FIGURE 2E

Figure 3

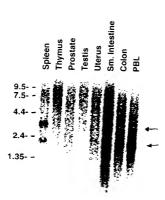


Figure 4

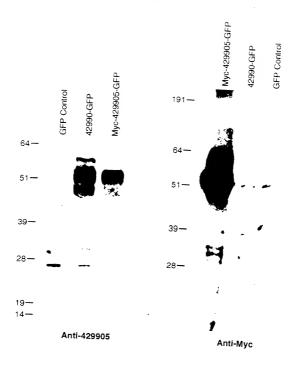


Figure 5

